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TO FAX NO.: 1-703-305 3014
ATTENTION: Examiner Michael BORIN

FROM: Colleen McKiernan
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Subject/comments:

First Inventor: David A. Gough
Serial Number: 09/993,272
Filing Date: November 14, 2001
Title: Method for Predicting Protein-Protein Interactions in Entire Proteomes

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- Response to Restriction Requirement (4 pages)


Colleen McKiernan

Operator: Colleen J. McKiernan

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PATENT**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In Re Application of)
 David A. GOUGH) FOR: METHOD FOR PREDICTING
 Serial No.: 09/993,272) PROTEIN-PROTEIN
 Filed: November 14, 2003) INTERACTIONS IN ENTIRE
) PROTEOMES
) Group Art Unit: 1631

RESPONSE TO ELECTION REQUIREMENT

Commissioner for Patents
 Washington, D.C. 20231

VIA FACSIMILE
 703-305-3014

Attention: Examiner Michael L. Borin

Dear Sir:

This is in response to the Office Action dated September 30, 2003. The Examiner has issued a restriction requirement indicating that election must be made of either the invention of Group I (Claims 1-6 and 8), or the invention of Group II (Claim 7). By this Response, Applicants elect the claims of Group I, Claims (Claims 1-6 and 8), for examination.

I hereby certify that this correspondence is being transmitted via facsimile to the number 703-305-3014 to: Commissioner for Patents, Washington, D.C. 20231 on:

October 28, 2003

(Mailing Date)

Colleen J. McKleran

(Registered Representative)

(Signature)

October 28, 2003

(Date of Signature)

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Ser. No. 09/993,272

CLAIMS

1. (Original) A method for predicting biomolecular interactions comprising, inputting a training set comprising primary structure of biomolecules with known interactions into a trainable system, inputting a set of biomolecules with unknown interactions into the trainable system, and predicting interactions between members of the set of biomolecules with unknown interactions by analogy to the biomolecules in the training set using the trainable system.
2. (Original) The method of claim 1, wherein the interactions are homotypic.
3. (Original) The method of claim 1, wherein the interactions are heterotypic.
4. (Original) The method of claim 1, wherein the biomolecule is a protein.
5. (Original) The method of claim 1, wherein the biomolecule is a nucleic acid.
6. (Original) The method of claim 1, wherein the biomolecule is a bioactive agent.
7. (Withdrawn)
8. (Original) A trainable system for predicting bi molecular interactions

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comprising,

a training set comprising primary structure of biomolecules with known interactions into a trainable system,

a set of biomolecules with unknown interactions into the trainable system, and

a system for predicting interactions between members of the set of biomolecules with unknown interactions by analogy to the biomolecules in the training set.

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By this election, and in accordance with 37 C.F.R. § 1.142(b), the claim of Group II is withdrawn. Applicants reserve the right to file a Divisional application on the claims of Group II and Claim 7.

FEES

It is believed that no fee is due with this response. However, if a fee is due, the Commissioner is hereby entitled to charge Deposit Account 02-4070 referencing case number 6627-PA1034.

Respectfully submitted,

Dated: October 28, 2003

By:


Colleen J. McKiernan
Agent for Applicant
Registration No. 48,570

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